

1 9 11.1 475 2 T18487 hypothetical prote alcohol sulfotrans alcohol sulfotrans artifact-warning s 9.9 627 4 A40201 Qa-2 antigen - mou s 9.9 627 4 A40201 Qa-2 antigen - mou s 9.9 627 4 A40201 Qa-2 antigen - mou s 9.9 627 8.6 192 S12268 probable plasmid s 9.9 627 8.6 145 2 H75262 hypothetical prote s 9.6 145 2 H75262 hypothetical prote s 9.6 146 2 H97518 hypothetical prote s 9.7 8.6 194 2 A82738 hypothetical prote s 9.7 8.6 194 2 A82738 hypothetical prote s 10 7 8.6 214 2 A82738 hypothetical prote s 10 7 8.6 214 2 A82738 hypothetical prote s 10 7 8.6 304 2 H64156 hypothetical prote s 10 7 8.6 311 2 C71612 hypothetical prote s 10 7 8.6 312 C71612 hypothetical prote s 11 7 8.6 337 2 S38156 hypothetical prote s 11 7 8.6 337 2 S38156 hypothetical prote s 11 7 8.6 337 2 S38156 hypothetical prote s 11 7 8.6 337 2 S38156 hypothetical prote s 11 7 8.6 337 2 S38156 hypothetical prote s 11 7 8.6 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 337 2 S38156 hypothetical prote s 11 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8

ALIGNMENTS

R;Lawson, D.; Bowman, S.; Barrell, B. submitted to the EMBL Data Library, August 1997 A;Reference number: Z18935 밁 Ş hypothetical protein C0830w - malaria parasite (Plasmodium falciparum)
C;Species: Plasmodium falciparum
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 11-Jan-2002
C;Accession: T18487 A; Note: C0830w A; Map position: 3 A; Introns: 112/2 A;Cross-references: EMBL:Z98551; NID:e1331903; PIDN:CAB11126.1 A; Molecule type: DNA A; Residues: 1-475 <LAW> A;Status: preliminary; translated from GB/EMBL/DDBJ A; Reference number: A; Accession: T18487 Best Local Similarity
Matches 9; Conserva Query Match Genetics: 7 LFIYLFIYE 15 |||||||| 115 LFIYLFIYE 123 Conservative 11.1%;
100.0%; 0 Score 9; DB 2; Pred. No. 0.16; Mismatches Length 475; Indels 0 Gaps 0

alcohol sulfotransferase (EC 2.8.2.2) - human
alcohol sulfotransferase (EC 2.8.2.2) - human
nyalternate names: dehydroepiandrosterone sulfotransferase (DHEA-ST); dehydroepiandro
C;Species: Homo sapiens (man)
C;Date: 06-Sep-1996 #sequence_revision 06-Sep-1996 #text_change 11-Jun-1999
C;Accession: I53037; I38548; I38549; JC1223; S28155; A58735; I37285; S52476
R;Luu-The, V; Dufort, I.; Paquet, N.; Reimnitz, G.; Labrie, F.
DNA Cell Biol. 14, 511-518, 1995
DNA Cell Biol. 14, 511-518, 1995
A;Title: Structural characterization and expression of the human dehydroepiandrostero
A;Reference number: I53037; MUID:95322029; PMID:7598806
A;Accession: I53037; MUID:95322029; PMID:7598806
A;Accession: I53037; Translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-285 - CDU MOI. Pharmacol. 41, 865-872, 1992
A;Title: Human liver dehydroepiandrosterone sulfotransferase: Molecular cloning and e A;Reference number: 38548; MUID:9269778; PMID:1588921
A;Accession: I38548
A;Status: translated from GB/EMBL/DDBJ A;Cross-references: GB:L36196; NID:g908766; PIDN:AAA75491.1; PID:g908768 R;Otterness, D.M.; Wieben, E.D.; Wood, T.C.; Watson, R.W.G.; Madden, B.J.; McCormick, Mol. Pharmacol 41, 865-872, 1992 A;Molecule type: mRNA A;Residues: 1-285 <OTT1>

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RESULT 3
A40201
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artifact-warning sequence (translated
C; Species: Homo sapiens (man)
C; Date: 31-Mar-1992 #sequence_revision
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Comer, K.A.; Falany, J.L.; Falany, C.N.
Biochem. J. 289, 233-240, 1993
A;Title: Cloning and expression of human liver dehydroeplandrosterone
A;Reference number: S28155; MUID:93143674; PMID:7678732
A;Accession: S28155
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A;Map position: 19q13.3-19q13.3
A;Introns: 46/1; 115/3; 158/1; 189/3; 249/1
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A;Residues: 1-89,'S',91-285 <COM>
A;Residues: 1-89,'S',91-285 <COM>
A;Ross-references: GB:X70222; GB:S53620; NID:g312804; PIDN:CAA49755.1;
A;Note: parts of this sequence were determined by protein sequencing; th R;Forbes, K.J.; Hagen, M.; Glatt, H.; Hume, R.; Coughtrie, M.W.
Mol. Cell. Endocrinol. 112, 53-60, 1995
A;Title: Human fetal adrenal hydroxysteroid sulphotransferase: cDNA clon A;Reference number: A58735; MUID:96034512; PMID:7589785
A;Accession: A58735
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A; Residues: 1-285 <R
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Experimental source: fetal adrenal R; Otterness, D.M.; Her, C.; Aksoy, S.; Kimura, S.; Wieben, E.D.; Weinshilboum, DNA Cell Biol. 14, 331-341, 1995
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A;Accession: I38549
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A;Cross-references: GB:S43859; NID:g255072
A;Experimental source: liver
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A;Cross references: GB:X84816; NID:g683577; PIDN:CAA59274.1;
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A;Residues: 1-285 <FO
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8; Conserv
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Pred. No.
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19-May-2000
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he amino end
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                                            L.; Hyman, R.
Science 293, 6
                                                                      A;Cross-references: GB:AL591985; PIDN:CAC49970.1; A;Experimental source: strain 1021, megaplasmid p5 R;Galibert, F; Finan, T.M.; Long, S.R.; Puhler, F pela, D; Chain, P; Cowie, A.; Davis, R.W.; Drear L.; Hyman, R.W.; Jones, T.
                                                                                                                                                                                                                                                                                                R;Finan, T.M.; Weidner, S.; Wong, K.; Buhrmester, J.; Chain, P.; Proc. Natl. Acad. Sci. U.S.A. 98, 9899-9894, 2001
A;Title: The complete sequence of the 1,683-kb psymB megaplasmid A;Reference number: A95842; MUID:21396508; PMID:11481431
                                                                                                                                                                                                                                                                                                                                                                                                                          probable plasmid stability protein [imported] - Sinorhizobium meliloti (strain C;Species: Sinorhizobium meliloti C;Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change 30-Sep-2001
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A;Residues: 1-137 <KUR>
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Kahn, D.; Kahn, M.L.;

M.L.; Kalman, S.;
Vorholter, F.J.;

Keating, weidner,

D.H.; S.; We

Wells, I

D.H.; Wong, K.;

Lelau; Yeh,

021, megaplasmid pSymB ng, S.R.; Puhler, A.; *I* Davis, R.W.; Dreano, S

Abola, P.; Ampe. S.; Federspiel,

Ampe, F.; Barloy-Hubl oiel, N.A.; Fisher, R.

PID:g15141458;

GSPDB:GN00167

from Vorholter,

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Vandenbol,

R.W.; Jones, 668-672, 20

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C.Species: Mus musculus (house mouse)
C.Species: Mus musculus (house mouse)
C.Date: 21-Nov-1993 #sequence_revision 10-Nov-1995 #text
C.Accession: S12268
R;Ulker, N.; Lewis, K.D.; Hood, L.E.; Stroynowski, I.
EMBO J. 9, 3839-3847, 1990
A;Title: Activated T cells transcribe an alternatively s
A;Reference number: S12268; MUID:91065311; PMID:2249652
                                                                                                                        A;Status: preliminary
A;Molecule type: mRNA
A;Residues: 1-19 <ULK>
A;Cross-references: GB:X57330; NID:g288506; PIDN:CAA40607.1;
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A;Title: Identifying coding
A;Reference number: A40200;
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A; Residues: 1-627
R; Claverie, J.M.
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A; Accession: S12268
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                                                                                                                                                                                                                                                                                                                          Qa-2 antigen - mouse (fragment)
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in-frame stop codons are shown as 'X'.
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C;Accession: H75262
R;White, O.; Eisen, J.A.; Heidelberg, J.F.; Hickey, E.K.; Peterson, M.; Shen, M.; Vamathevan, J.J.; Lam, P.; McDonald, L.; Utterback, S.; Smith, H.O.; Venter, J.C.; Fraser, C.M.
Science 286, 1571-1577, 1999
Science 286, 1571-1577 of the radioresistant bacterium Deinococcus
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A;Station: H97518
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   hypothetical protein - Deinococcus radiodurans (strain C;Species: Deinococcus radiodurans C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #tex
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A;Contents: annotation C;Genetics:
                                                                                                                                                                                                                                                                               A; Molecule type: DNA
A; Residues: 1-146 < KUR>
                                                                                                                                                                                                                                                                                                                                                                                                        R:Goodner, B.; Hinkle, G.; Gattung, S.; Miller, N.; Blanchard, M.; Qurollo, A.; Liu, F.; Wollam, C.; Allinger, M.; Doughty, D.; Scott, C.; Lappas, C.; Science 294, 2323-2328, 2001

A;Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrob
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C;Species: Agrobacterium tumefaciens
C;Date: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 11-Jan-2002
C;Accession: H97518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 hypothetical protein AGR_C_2417 [imported] - Agrobacterium tumefaciens (strain C; Species: Agrobacterium tumefaciens
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A; Residues: 1-145 <WHI>
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A;Experimental source: strain R1
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T.; Zalewski,
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euss, D., Mierman, W.C.; White, O., Lave...
Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
                                                                                                                   transcription regulator, TetR family Atul314 [imported] - Agrobacterium tumefaciens (C;Species: Agrobacterium tumefaciens C;Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 11-Jan-2002
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                                            R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, erage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, Perage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, Perage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, Perage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, Perage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, Perage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, Perage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, Perage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, Perage, G.; Gillet, W.; Grant, G.; Guenthner, G.; Guent
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A;Gene: At2g37490
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A; Residues: 1-195 <NEL>
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A; Residues: 1-194 <STO>
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.; Romero, P.;
94, 2317-2323,
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                       Grant, C.; ; Zhang, S.
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A; Authors: Yoo,

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Tao,

Y.; Biddle, P.; Jung, M.;

Krespan, W.; Perry, M.;

Gordon-Kamm,

H.

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hypothetical protein HI0687 - Haemophilus influenzae (strain Rd KW20)
C;Species: Haemophilus influenzae
C;Date: 18-Aug-1995 #sequence_revision 18-Aug-1995 #text_change 21-Jul-2000
                                                            A; Note:
                                                                                                                                                            A; Authors: Gnehm, C.L.; McDonald, L.A.; Small, K.V.; Fraser, C.M.; A; Title: Whole-genome random sequencing and assembly of Haemophilus A; Reference number: A64000; MUID:95350630; PMID:7542800
                                                                                                                                                                                                          R;Fleischmann, R.D.; Adams, M.D.; White, O.; Clayton, R.A.; Kirkness, E.F.; Kerlavage, Gocayne, J.D.; Scott, J.; Shirley, R.; Liu, L.I.; Glodek, A.; Kelley, J.M.; Weidman, D.M.; Brandon, R.C.; Fine, L.D.; Fritchman, J.L.; Fuhrmann, J.L.; Geoghagen, N.S.M.; Science 269, 496-512, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C;Superfamily: lnvolucitin
C;Keywords: cornified cell envelope; duplication;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Residues: 1 285 <TSE>
A; Cross-references: GB: M34442; NID: g163980; PIDN: AAA30853.1; PID: g163981
C; Comment: During the terminal differentiation of keratinocytes, this prolinked envelope under the plasma membrane.
C; Superfamily: involucrin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Title: The involucrin genes of pig and do
A;Reference number: I46207; MUID:90348475;
A;Accession: I46207
                                                                                            A; Molecule type:
A; Residues: 1-30
                                                                                                                                            A; Reference number: A64000; A; Accession: H64156
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                                                                                                                             A; Status: nucleic
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Mol. Biol. Evol. 7, 29
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Molecule type: DNA
A; Residues: 1-214 < KUR>
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A; Title: The Genome
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                           Query Match
                                                                         Cross-references: GB:U32751; GB:L42023; NID:g3212200; PIDN:AAC22347.1;
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                                                                                           1-304 <TIGR>
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                                                                                                                         acid sequence not shown; translation not shown
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AB2577;
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100.0%; Pr
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5; PMID:2385171
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                        Query Match
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hypothetical protein YKR088c - yeast (Saccharomyces cerevisiae)
N;Alternate names: hypothetical protein YKR408
C;Species: Saccharomyces cerevisiae
C;Date: 03-May-1994 #sequence_revision 03-May-1994 #text_change 19-Apr-2002
C;Accession: S38166; S42017; S39129
C;Accession: S38166; S42017; S39129
                                                                                                                                                                                                                                A; Molecule type: DNA
A; Residues: 1-337 <GAR>
                                                                                                                                                                                                                                                                        Yeast 10, 231-245, 1994
A;Title: The complete sequence of an 18,002 bp segment of Saccharomyces cerevisiae ch A;Reference number: $42009; MUID:94262327; PMID:8203164
                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Baladron, V.; Ballesta, J.P.G.; Bou, G.; submitted to the Protein Sequence Database,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C; Accession: S38 R; Baladron, V.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  probable multiple-TM membrane protein PFB0535w - malaria
C;Species: Plasmodium falciparum
                                                                                                        F;96-112/Domain: transmembrane #status predicted <TMl>
                                                                                                                                             A; Map position:
                                                                                                                                                                A; Cross-references:
                                                                                                                                                                                               A; Experimental source: strain
                                                                                                                                                                                                 A;Cross-references: EMBL:Z27116; NID:g415899; PIDN:CAA81639.1; PID:g415908
A;Exper1mental source: strain S288C
                                                                                                                                                                                                                                                                                                                        R;Garcia-Cantalejo, J.; Baladron,
Yeast 10, 231-245, 1994
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A;Experimental source: strain S288C
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A; Residues: 1-337 <BAL>
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A; Experimental source: clone 3D7
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A; Residues: 1-311 <GAR>
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                                                                     138-154/Domain:
174-190/Domain:
                                                                                                                           Keywords: transmembrane protein
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                                                       predicted
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            Length 337;
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R.; White, O.; Smith,
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A;Cross-references: SGD:S0006269; MIPS:YPR065w
A;Map position: 16R
C;Superfamily: unassigned HMG box proteins; HMG box homology
C;Keywords: DNA binding; transcription regulation
F;8-87/Domain: HMG box homology <HMG1>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Molecule type: DNA
A;Residues: 1-368 <br/>
A;Cross-references: EMBL:X60458; NID:g4361; PIDN:CAA42991.1; PID:g4362
A;Cross-references: EMBL:X60458; NID:g4361; PIDN:CAA42991.1; PID:g4362
A;Cross-references: EMBL Data Library, May 1995
A;Badcock, K.; Churcher, C.M.
Submitted to the EMBL Data Library, May 1995
A;Reference number: S54067
A;Recession: S54086
A;Residues: 1-368 <br/>
A;Residues: 1-368 <br/>
A;Residues: 1-368 <br/>
A;Cross-references: EMBL:Z49219; NID:g805025; PIDN:CAA89182.1; PID:g805045; MIPS:YPR065w<br/>
R;Deckert, J.; Perini, R.; Balasubramanian, B.; Zitomer, R.S.<br/>
Genetics 139, 1149-1158, 1995<br/>
A;Title: Multiple elements and auto-repression regulate Rox1, a repressor of hypoxic gen<br/>
A;Reference number: S55246; MUID:95286046; PMID:7768429<br/>
A;Molecule type: DNA<br/>
A;Molecule type: DNA<b
Search completed: May 29, 2003, 15:33:24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: DNA
A; Residues: 1-17 <DEC>
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264 LFIYLFI 270
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